Nickel-Plated Sampler Cones Last Longer

Nickel plating extends cone lifetime and reduces cone maintenance

Customers using ICP-MS sampler cones with a copper base can suffer corrosion of the copper, particularly with food and environmental samples where strong acid matrices such as hydrochloric acid or aqua regia are used for sample preparation.

This copper base corrosion:

- Reduces cone lifetime
- Increases cleaning frequency and duration
- Degrades analytical performance

Nickel plating solves corrosion problems

Our nickel-plated platinum-tipped (part number G3280-67142) and nickel-tipped (part number G3280-67061) sampler cones reduce copper corrosion that shortens sampler cone lifetime, and can help you improve your analytical capabilities.

Highlights

- Greater than two times longer cone life in testing Pt-tipped Ni-plated cone in comparison with Pt-tipped with copper base with 10% Aqua Regia matrix
- Cleaning frequency reduced by more than three times
- Simpler one-step cleaning routine using only water sonication

The Ni-plated sampler cones are suitable for all Agilent 7700/7800/7900 single-quadrupole and 8800/8900 triple-quadrupole models.

They are recommended for users running food and environmental samples and using aggressive acid matrices for sample preparation.

Agilent CrossLab
From Insight to Outcome

Why you need genuine OEM Interface Cones?

Only Agilent interface cones are designed and tested on Agilent ICP-MS systems to ensure sensitivity and stability with real-world applications. We compared genuine Agilent interface cones (sampler and skimmer) with cones from other suppliers. See our results which confirm that using non-Agilent cones compromises performance

To know more, visit below link:
www.agilent.com/en/promotions/cone-comparison

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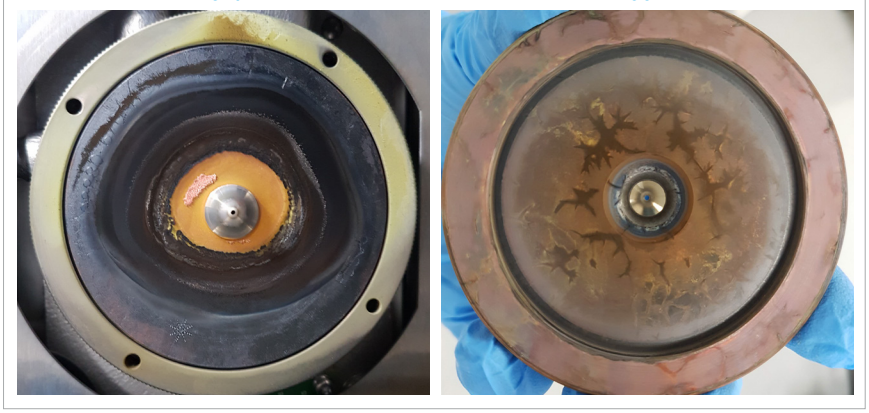
Corrosion problems



The standard platinum-tipped sampler cone (without nickel plating) after 1,090 hours of run time with a 10% aqua regia matrix. This demonstrates the copper base corrosion problem. Black coating is copper oxide and surrounding the tip the copper is worn away.

No copper corrosion

Our new nickel-plated platinum-tipped sampler cone shows almost no copper corrosion (front and back) after 1,090 hours of run time with a 10% aqua regia matrix.

Cleaning is simplified and 3-times faster

Eliminating the copper base corrosion enables simple one-step cleaning so your nickel-plated cone is back in use faster using a simpler cleaning method.

Photo after an 18 hour run time with only 30 hours total run time with a 10% Aqua Regia solution. Pt/Ni-plated (left) Cleaning Cycle: 1 x 25 min water cycle in the ultrasonic bath, Swabbing. Reference Pt/Cu Cone (Right) Cleaning Cycle: 1 x 25 min water cycle in the ultrasonic bath, 5 min in 2% Citranox after the first water cycle, 2 x 25 min water cycle in the ultrasonic bath, Swabbing.

Included in cone care packages

We also offer these cones as part of our all-in-one cone care kit.

Agilent cone care package provide all the supplies users need to replace and maintain their interface cones. The kits include an LED measuring magnifier at no extra charge. Buy online: **www.agilent.com/en/promotions/icpms-conecare-online**

To learn more about these new corrosion-resistant cones and latest promotion, visit:
www.agilent.com/en/promotions/nickle-plated-cones

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